SONY

DVD/CD Rewritable Drive

Operating Instructions

DRX-S77U

© 2009 Sony Corporation

Table of Contents

Introduction

Package Contents 4
Features 4
System Requirements 4
Part Names and Functions 5

Setup

Connecting with the PC 6
Installation 6
Disconnection 7

Operation

Using the Drive 8
Supplied Software (For Windows only) 8
Using Generic Software with the Drive 9
Compatible Discs 10
Recommended Writable Discs ... 12
Writable Discs and Compatibility 13
Precautions on Writing/ Playing Discs 14

Miscellaneous

Precautions for Use 16
Support Overview 17
User Support Web Site 17
Update the Drive Firmware 17
Product and Support Information 17
Specifications 18

- Pentium is a registered trademark of Intel Corporation.
- Microsoft, Windows, and Windows Vista are registered trademarks of Microsoft Corporation.
- Macintosh and Mac OS are registered trademarks of Apple Inc.
- Other system and product names used herein are registered trademarks or trademarks of their respective manufacturers, although the ™ and ® marks are not used in the text.

- ❑ Our product warranty is valid only when the supplied accessories (including software) are used in the specified or recommended system environment, in accordance with the documentation, and applies only to this DVD/CD rewritable drive. Our customer service and user support apply only under these product warranty conditions.
- ❑ Please note that we cannot accept responsibility for failure of the computer or other devices, incompatibility with special hardware, operating problems caused by improper installation of software, loss of data, discs or other accidental or incidental damage that might occur when using this product.
- ❑ The guarantee and user support for this product are valid only within the countries or sales regions specified on the warranty card.
- ❑ Copyright laws prohibit the copying in part or in full of the supplied software and documentation, or loaning the software, without obtaining permission of the copyright holder.
- ❑ We cannot accept responsibility for any direct or indirect financial damage or loss of profit that might occur when using the supplied software.
- ❑ The supplied software can only be used with this product.
- ❑ Specifications of the supplied software may be changed without notice in the interest of product improvement.

Please Record Responsibly

Before copying anything onto a disc, please be sure that you are not violating copyright laws. Most software companies allow you to make a backup or archive copy of software. Check your software's license agreement for details.

Package Contents

Please verify that the package contains the following when unpacking.
If any of these items appear to be missing and/or damaged, please contact your dealer.

- Drive

- USB cable
- Quick start guide
- Product Information
- AC power cord
- AC power adapter
- Software disc
- Warranty card

Note

Make sure that you back up the supplied software disc on another disc because the software disc is not distributed independently.

Features

This product offers the following features.

- ❑ Slim portable DVD/CD Rewritable drive with Hi-Speed USB (USB 2.0 compliant) interface.
- ❑ Stylish and sleek finished design for business and home.

System Requirements

The drive should be used with a system that meets the following requirements[1)].

For Windows

- ❑ CPU: Pentium III 1.0 GHz or higher (Pentium 4, 2.0 GHz or higher recommended)
- ❑ 256 MB RAM or more (512 MB RAM for Windows Vista)
- ❑ 1.5 GB free hard disk space (10 GB for DVD creation)
- ❑ Operating system:
  Windows XP
  - Windows XP Home Edition SP3
  - Windows XP Professional SP3

  Windows Vista
  - Windows Vista Home Basic SP1
  - Windows Vista Home Premium SP1
  - Windows Vista Business SP1
  - Windows Vista Ultimate SP1

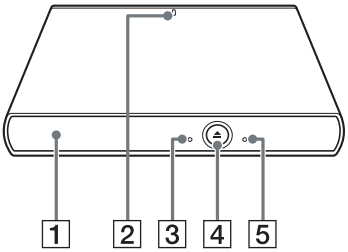
  Windows 7
  - Windows 7 Home Premium
  - Windows 7 Professional
  - Windows 7 Ultimate
- ❑ Hi-Speed USB (USB 2.0) port

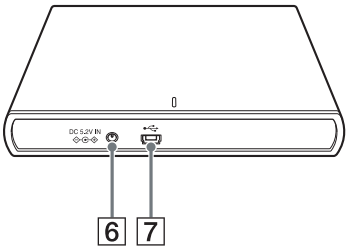
For Mac OS X

- ❑ Operating system:
  Mac OS 10.4.11 (Tiger)
  Mac OS 10.5.8 (Leopard)
  Mac OS 10.6.1 (Snow Leopard)
  or later
- ❑ Hi-Speed USB (USB 2.0) port

1) The above requirements are the minimum necessary requirements to write to disc normally. Under actual operating conditions, the requirements imposed by your software must also be met. For details, refer to your software documentation.

Part Names and Functions





1 Disc tray

Insert discs here, label side up.

Hint

When you insert a disc, use your fingers to press around the center of the disc until it is firmly seated in the drive.
When you remove a disc, lift up on the edge of the disc with your thumb while supporting the center of the disc with your forefinger.

2 Power indicator

Indicates the power status.
Lit: Power on
Off: Power off

3 Busy indicator

Indicates the drive status.
Lit/Blinking:
The drive is reading or writing data.
Off: The drive is in a state other than those outlined above.

4 Eject button

Press to open the disc tray.

5 Emergency eject hole

If you cannot open the disc tray with the eject button, turn off the drive, and then insert a thin, elongated object into this hole to eject the disc tray manually.

6 DC IN Jack

Connect the supplied AC power adapter.

Note

Be sure to use the supplied AC power adapter.

7 USB Connector

Used with a USB cable to connect the drive to a computer.

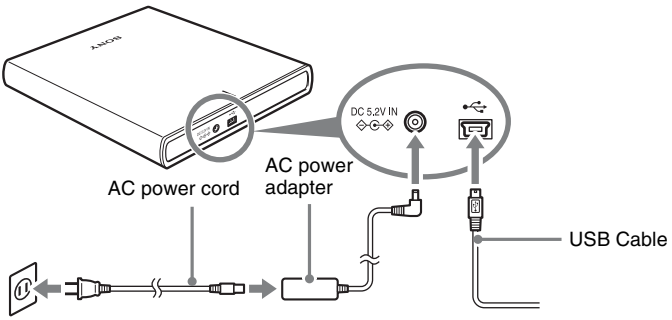
Connecting with the PC

Installation

1 Start your computer.

2 Connect the necessary cables.

- Place the drive horizontally on a stable surface.
- Connect the USB cable to the drive's USB connector.
- Connect the supplied AC power cord to the supplied AC power adapter. Then connect the AC power adapter to the drive's DC IN jack, and connect the power cord to the power outlet.



Note

This drive does not have a power switch. The drive turns on when connected to a power supply with the AC power adapter.

3 Connect the other end of the USB cable to your computer.

Note

Connect the drive to a USB port on the computer. Do not connect the drive via a USB hub device.

4 [Windows PC] Insert the supplied software disc into the DVD/CD rewritable drive and install the software.

Disconnection

[Windows PC] When your computer detects the drive successfully, (or depending on your OS) appears on the Windows task bar. When you want to disconnect the drive, you must first stop it using this icon.

1 Click ( ) on the task bar, and click the drive to be disconnected on the shortcut menu.

2 Operate following the message displayed, if any.

3 Disconnect the USB cable.

Using the Drive

Use the supplied software to read and write to CDs and DVDs. Refer to the documentation of each software for details about their operation.

Supplied Software (For Windows only)

The supplied software disc contains the following software.

Nero StartSmart Essentials
Nero StartSmart serves as the command center to quickly start all the software of the Nero suite.

Nero Express Essentials
Nero Express is a disc writing application that allows you to create CDs and DVDs through a simple step-by-step process.

Nero Vision Essentials
DVD-Video and Video CD authoring software.

Nero ShowTime Essentials*
DVD-Video and Video CD playback software.

Nero CoverDesigner Essentials
CD and DVD cover and label creation software.

Nero Toolkit
The utilities of Nero Toolkit provide information about the system and more. Nero Disc Speed tests the speed of the existing drives. Nero DriveSpeed adjusts the write speed to minimize drive noise. Nero InfoTool provides the main characteristics of drives, the discs they contain, and the installed software.

* This software is a trial version with a 30-day usage restriction. Some functions such as DVD-Video playback are restricted in this trial version.

Using Generic Software with the Drive

Using software other than the supplied software (such as generic software, shareware, or freeware) to write data to disc with this drive is not under warranty and Sony offers no customer service if problems arise from using such software.

Make sure that the supplied writing software and generic writing software do not coexist on your computer. Taking appropriate steps to avoid this situation, especially in the case of packet writing software[1)] or format utility[2)] will help prevent erratic operation of the software and/or computer.

If the generic software you are using does not detect the drive correctly, visit the Web site of the software manufacturer and update the software, as this may solve the problem.

[1)] Such as Roxio's Drag-to-Disc, BHA's B's CLIP, and Sonic's DLA.
[2)] Such as BHA's DVD-RAM Driver and Panasonic's DVD Form.

Compatible Discs

The following discs are compatible with the drive.

DVD

Disc types	Logo	Read	Write
DVD+R		✓	✓
DVD+R DL (Double layer)		✓	✓
DVD+RW		✓	✓
DVD+RW (High Speed)		✓	✓
DVD-R		✓	✓
DVD-R DL (Dual Layer)		✓	✓
DVD-RW[1)]		✓	✓
DVD-RAM[2) 3)]		✓	✓
DVD-ROM		✓	—
DVD-Video		✓	—

1) This drive is compatible with the DVD-RW disc displaying "RW 2" mark.

2) This drive can read DVD-RAM discs displaying the "RAM 2"mark. However, the write operation is not supported.

3) Use a non-cartridge-type disc or a cartridge from which the disc can be ejected.

CD

Disc types	Logo	Read	Write
CD-R[1)]		✓	✓
CD-RW		✓	✓
CD-RW (High Speed)		✓	✓
CD-RW (Ultra Speed)		✓	✓
CD-ROM		✓	—
CD-DA (audio only)		✓	—
CD Extra		✓	—
Video CD		✓	—
CD TEXT		✓	—
Photo CD		✓	—

[1)] Operation is not guaranteed when writing to or playing back 99 minute discs.

Disc diameters		Read	Write
DVD	12 cm	✓	✓
	8 cm	✓	—
CD	12 cm	✓	✓
	8 cm	✓	✓

Note

Only round discs should be used with this drive. Attempting to read odd-shaped discs (stars, hearts, card shape, etc.) may damage the drive.

Recommended Writable Discs

We recommend that you only use discs for which operation has been guaranteed. You can obtain the latest list of writable discs for which operation with this drive has been guaranteed at the user support Web site address (see page 17 for details).

Note

You can safely use most disc formats that comply to the appropriate standards with this drive. However, bear in mind that some generic discs do not comply to quality or performance standards necessary for safe use with this drive. If you use such discs, the drive may automatically adjust the writing speed, writing errors may occur, and discs that have been written to may generate reading errors, etc.

Writable Discs and Compatibility

CD-R discs

Data can be written on this type of disc only once, and once it has been written, it cannot be erased. Music CDs created on this media can be played on standard CD players.

CD-RW discs

Data can be written on and erased from this type of disc repeatedly. Typically, a new CD-RW disc can be rewritten about 1,000 times.
Music CDs created on this media cannot be played on a CD player unless it is CD-RW compatible.

DVD+R, DVD-R, DVD+R DL, and DVD-R DL discs

Data can be written on this type of disc only once, and once it has been written, it cannot be erased.
DVD+R DL (double layer) and DVD-R DL (dual layer) discs have two layers on one side of the disc and have double the capacity conventional single-layer discs.

DVD+RW, DVD-RW, and DVD-RAM discs

Data can be written on or erased from this type of disc repeatedly. Typically, a new DVD+RW or DVD-RW disc can be rewritten about 1,000 times (100,000 times for DVD-RAM discs).

About playback/reading compatibility

- CD-R and CD-RW discs created and finalized with this drive can be read on most CD-ROM drives. However, some older CD-ROM drives cannot read CD-RW discs. Similarly, CD-R music discs created and finalized with this drive can be played on most CD players, but some CD players and automobile CD players do not support or guarantee playback of CD-R discs. Due to differences in CD-ROM drive, CD player, CD-R disc, and CD-RW disc characteristics between manufacturers, playback may not be possible depending on the combination.*
- DVD-Video discs created and finalized with this drive can be played back on most standard DVD players. In addition, DVD-ROM discs created and finalized with this drive can be played back on most DVD drives. However, some drives do not support multi-session or multi-border DVD-ROM discs. In such cases, the drive may only read the first session or border of the disc. Due to differences in DVD drive, DVD player, and disc characteristics between manufacturers, playback and reading may not be possible depending on the combination.*
- Playback of DVD-RAM discs is only supported on drives and players that are DVD-RAM compatible.

* Playback compatibility is not under warranty.

Precautions on Writing/Playing Discs

Write speed and compatible discs

- When writing data to disc at high speeds, you must use the appropriate type of disc.
- Configure the writing speed through your writing software. For details about the setting procedures, refer to your writing software documentation.
- When writing data to disc, the drive may adjust the writing speed to the quality of the disc in the drive. Depending on the transfer rate, there may also be limitations on writing speeds.

DVD region codes

The playback of DVD-Video (DVD discs) is protected and controlled by a region code setting. For the drive to play back DVD-Video, the region code on the DVD disc, the region code of the drive, and the region code of the DVD-Video software must all match.

With this drive, the region code can be set up to five times, including the initial assignment (RPC phase 2[1)] standard). After setting the region code five times, the setting becomes permanent and can no longer be changed. From this point on, you are only able to play back DVD-Video whose region code matches the one set the fifth time.

Do not attempt to make unauthorized changes to the region code. Any problems resulting from doing so are not covered by the warranty.

Hint

You can change the region code of the drive on it's properties dialog box accessible from the Device Manager.

Precautions when playing back DVD-Video

DVD-Video disc playback conditions are sometimes determined by software manufacturers. Because the drive plays back discs as determined by software manufacturers, some drive functions may not always perform as expected. When playing back DVD-Video, refer to the documentation accompanying each disc.

DVD copy protection technology

Most DVD-Video discs on the market are protected against unauthorized copy. Attempting to copy protected discs violates copyright laws.

[1)] Region Playback Control (RPC) standard.

Copy controlled CDs

This product is designed to play back discs conforming to the compact disc (CD) standard. Audio CDs encoded with copyright protection technology are now marketed by various record companies. Be aware that some of these discs do not conform to the CD standard and you may not be able to play them back with the drive. When using the drive as an audio CD player, only use audio CDs with the following mark. Some of these discs are encoded in such a way as to prevent sampling and/or copy, while others can only be played back under certain conditions. For details, refer to the documentation of your audio CD.

Attention Regarding DualDisc Software

A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side.
However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

Precautions for Use

Operation and storage conditions

Avoid using or storing the drive in a hot or humid location, or where it might be subject to severe vibration or direct sunlight.

On transportation

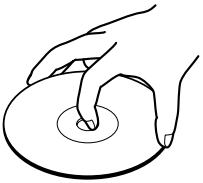
- Please repack the drive in its original carton when shipping by itself.
- If the drive is to be shipped, remove any disc beforehand.

Avoiding condensation problems

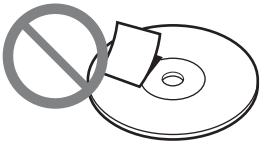
When you transfer this appliance from a cold place a hot place abruptly, you may get water drops on the surface and inside of the appliance. This is called condensation. If condensation occurs, turn off the power and leave the appliance until the condensation disappears; after the condensation disappears, you can use the appliance again. If you use the appliance during condensation, this may cause the appliance to malfunction.

Handling discs

- Handle discs only by the edges. Never touch the recording surface.



- Do not affix labels on discs.



- Do not store discs in dusty, dirty or humid locations, in direct sunlight, or near heat-generating devices.
- To protect important data, always keep discs in their protective cases.
- Do not wipe writable discs to clean them before recording data. Instead, use a blower to remove any dust.
- Data may not record properly if a scratch or dust is present on the unrecorded area of writable discs. Use special care when handling.

Support Overview

If you have problems with the drive, or are unsure of a procedure or some other details, please contact your Sony customer support center.

User Support Web Site

You can find the following information on this Web site. The information is periodically updated, so we recommend that you visit regularly.

- Information about the drive
- Information about the software supplied with the drive
- Latest firmware
- Frequently asked questions
- Troubleshooting guide
- Certified compatible computers
- Certified compatible discs
- Operating instructions
- Et cetera

Accessing the user support Web site

Insert the supplied software disc into the drive, and in the [Menu Selection] screen, click [User Support Web Page]. You can also directly type the user support Web site address (see Product and Support Information for details) in the address box of your Web browser.

Update the Drive Firmware

Some problems encountered when using the drive can be solved simply by updating the drive firmware. Firmware updates are available on the user support Web site. Access the site, make sure that there is an update for your firmware, and follow the instructions on the screen to proceed with download and installation.

Product and Support Information

Sony Global Sites Information (As of November, 2009)

Product purchased in the USA:*
http://www.sony-optiarc.us/external

Product purchased in Canada:
http://www.sony.ca/

Product purchased in Australia or New Zealand:
http://www.sony.com.au/

Product purchased in Europe:*
http://www.sony-optiarc.eu/

Product purchased in Hong Kong:*
http://www.sony.com.hk/Electronics/cp

Product purchased in China:*
http://www.sony.com.cn/products/ed/cp/ds/

Product purchased in Singapore:*
http://www.sony-asia.com/microsite/cp/

Product purchased in Taiwan:*
http://www.sony.com.tw/ds/

Product purchased in Korea:*
http://www.sony.co.kr

Product purchased in Brazil:
http://www.sony.com.br/eletronicos

Product purchased in the Middle East:
http://www.sony-mea.com/

* Local Web sites for computer peripheral products

About the Bundled Writing Software
Detailed information about the supplied writing software is available on the Web sites of the software manufacturers and software distributors. (Accessible from the links in each software application)

Technical Support

Please consult the above sources before calling with questions about using this product, or with technical questions about the drive or the supplied software. If using telephone or e-mail support, please have the following information available:

- Model number: DRX-S77U
- Serial number
- Date and place of purchase
- Computer maker and model number
- Computer specifications (CPU speed, memory size, OS version, etc.)
- Writing software used (version, etc.)

Local technical support is only available in the specified sales regions. The customers in these regions should be provided with a warranty card for this product. For contact information, refer to the warranty card.

Note that technical support conditions may vary according to the locality, and that charges and/or limited service may apply in some regions.

Specifications

Compatible discs	Read (max.)	Write (max.)
DVD+R	8×-CAV	8×-CAV
DVD+R Double Layer	8×-CAV	6×-ZCLV
DVD+RW (High Speed)	8×-CAV	8×-ZCLV
DVD-R	8×-CAV	8×-CAV
DVD-R Dual Layer	8×-CAV	6×-ZCLV
DVD-RW	8×-CAV	6×-ZCLV
DVD-ROM	8×-CAV	—
DVD-Video	4×-CAV	—
DVD-RAM[1)]	5×-ZCLV	5×-ZCLV
CD-R	24×-CAV	24×-CAV
CD-RW	24×-CAV	4×
CD-RW (High Speed)	24×-CAV	10×-ZCLV
CD-RW (Ultra Speed)	24×-CAV	24×-ZCLV
CD-ROM	24×-CAV	—
CD-DA	10×-CAV	—
CD-DA (DAE)	24×-CAV	—
Disc diameters		
DVD 12 cm	✓	✓
8 cm	✓	—
CD 12 cm	✓	✓
8 cm	✓	✓

1) Use a non-cartridge-type disc or a cartridge from which the disc can be ejected.

Depending on your system, there may be limitations on maximum writing speed.

Interface

Drive interface
USB 2.0-compliant (Hi-Speed USB) × 1

Buffer capacity

2 MB

Operating Environment

Operating temprature
5 to 35 °C/41 to 95 °F

Power

Power source
DC +5.2 V (supplied from the DC IN jack)

Consumption
Max. 2.0 A

AC power adapter[1)]
Type: HDAC-M1
Input: AC 100 V – 240 V
Output: DC 5.2 V/2 A

[1)] Use an AC power cord appropriate to the region or country of use.

Miscellaneous

Size
Approx. 136.5 × 19 × 146.5 mm/
$5\ ^{3}/_{8} \times\ ^{3}/_{4} \times 5^{3}/_{4}$ in (W×H×D)

Weight
Approx. 300 g (drive only)

Design and specifications are subject to change without notice.

http://www.sony.net/

Sony Corporation